



## SEQUENCE LISTING

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<110> Urry, Dan

<120> Injectable Implants For Tissue Augmentation and Restoration

<130> BERL-020/04US

<140> 09/841,321

<141> 2001-04-23

<150> US 09/258,723

<151> 1999-02-26

<150> US 60/087155

<151> 1998-05-29

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<170> PatentIn version 3.0

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Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
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Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
35 40 45

Val Pro Gly Val Gly Val Pro Gly Arg Gly Asp Ser Pro Gly Val Gly  
50 55 60

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
65 70 75 80

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
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Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
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Val Pro Gly Gly  
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[illegible]









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 2.  $\frac{1}{2} \frac{d}{dt} \int_{\mathbb{R}^n} |\nabla u|^2 dx = - \int_{\mathbb{R}^n} |\nabla u|^4 dx$   
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 4.  $\frac{1}{2} \frac{d}{dt} \int_{\mathbb{R}^n} |\nabla u|^2 dx = - \int_{\mathbb{R}^n} |\nabla u|^4 dx$   
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 6.  $\frac{1}{2} \frac{d}{dt} \int_{\mathbb{R}^n} |\nabla u|^2 dx = - \int_{\mathbb{R}^n} |\nabla u|^4 dx$   
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 8.  $\frac{1}{2} \frac{d}{dt} \int_{\mathbb{R}^n} |\nabla u|^2 dx = - \int_{\mathbb{R}^n} |\nabla u|^4 dx$   
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[illegible]

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35 40 45

Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Ala Pro  
50 55 60

Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Ala Pro  
65 70 75 80

Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Ala Pro  
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Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Ala Pro  
100 105 110

Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Ala Pro  
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Cys Ala Gly Gly Thr Gly Gly Thr Gly Thr Thr Cys Cys Gly Gly Gly  
20 25 30

Cys Gly Gly Cys Gly Thr Ala Cys Cys Gly Gly Gly Thr Gly Gly Cys  
35 40 45

Gly Thr Ala Cys Cys Gly Gly Gly Cys Gly Gly Thr Thr Thr Cys Cys  
50 55 60

Cys Gly Gly Gly Ala Gly Gly Thr Gly Thr Gly Cys Cys Gly Gly Gly  
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Gly Thr Ala Cys  
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35 40 45  
Val Pro Gly Val Gly Phe Pro Gly Phe Gly Phe Pro Gly Val Gly Val  
50 55 60  
Pro Gly Val Gly Val Pro Gly Lys Gly Val Pro Gly Val Gly Val Pro  
65 70 75 80  
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85 90 95  
Val Gly Val Pro Gly Lys Gly Val Pro Gly Val Gly Val Pro Gly Val  
100 105 110  
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115 120 125  
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130 135 140  
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165 170 175  
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180 185 190  
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Pro Gly Val Gly Val Pro Gly Val Gly Phe Pro Gly Phe Gly Phe Pro  
225 230 235 240  
Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Lys Gly Val Pro Gly  
245 250 255  
Val Gly Val Pro Gly Val Gly Phe Pro Gly Phe Gly Phe Pro Gly Val  
260 265 270



Gly Phe Pro Gly Phe Gly Phe Pro Gly Val Gly Val Pro Gly Val Gly  
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gggaca 66

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Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val  
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Val Pro  
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35 40 45

Val Pro Gly Val Gly Val Pro Gly Arg Gly Asp Ser Pro Gly Val Gly  
50 55 60

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
65 70 75 80

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
85 90 95

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
100 105 110

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val  
115 120 125

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
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Pro Gly Lys Gly Val	Pro Gly Val Gly Val	Pro Gly Val Gly Val Pro
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Lys Gly Val Pro Gly Val Gly Val	Pro Gly Val Gly Val Pro Gly Val	
980	985	990
Gly Val Pro Gly Val Gly Val	Pro Gly Val Gly Val Pro Gly Lys Gly	
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Val Pro Gly Val Gly Val	Pro Gly Val Gly Val Pro Gly Val Gly	
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Pro Gly Val Gly Val Pro Gly Lys Gly Val	Pro Gly Val Gly Val Pro	

65				70				75				80			
Gly	Val	Gly	Phe	Pro 85	Gly	Phe	Gly	Phe	Pro 90	Gly	Val	Gly	Val	Pro 95	Gly
Val	Gly	Val	Pro 100	Gly	Lys	Gly	Val	Pro 105	Gly	Val	Gly	Val	Pro 110	Gly	Val
Gly	Phe	Pro 115	Gly	Phe	Gly	Phe	Pro 120	Gly	Val	Gly	Val	Pro 125	Gly	Val	Gly
Val	Pro 130	Gly	Lys	Gly	Val	Pro 135	Gly	Val	Gly	Val	Pro 140	Gly	Val	Gly	Phe
Pro 145	Gly	Phe	Gly	Phe	Pro 150	Gly	Val	Gly	Val	Pro 155	Gly	Val	Gly	Val	Pro 160
Gly	Lys	Gly	Val	Pro 165	Gly	Val	Gly	Val	Pro 170	Gly	Val	Gly	Phe	Pro 175	Gly
Phe	Gly	Phe	Pro 180	Gly	Val	Gly	Val	Pro 185	Gly	Val	Gly	Val	Pro 190	Gly	Lys
Gly	Val	Pro 195	Gly	Val	Gly	Val	Pro 200	Gly	Val	Gly	Phe	Pro 205	Gly	Phe	Gly
Phe	Pro 210	Gly	Val	Gly	Val	Pro 215	Gly	Val	Gly	Val	Pro 220	Gly	Lys	Gly	Val
Pro 225	Gly	Val	Gly	Val	Pro 230	Gly	Val	Gly	Phe	Pro 235	Gly	Phe	Gly	Phe	Pro 240
Gly	Val	Gly	Val	Pro 245	Gly	Val	Gly	Val	Pro 250	Gly	Lys	Gly	Val	Pro 255	Gly
Val	Gly	Val	Pro 260	Gly	Val	Gly	Phe	Pro 265	Gly	Phe	Gly	Phe	Pro 270	Gly	Val
Gly	Val	Pro 275	Gly	Val	Gly	Val	Pro 280	Gly	Lys	Gly	Val	Pro 285	Gly	Val	Gly
Val	Pro 290	Gly	Val	Gly	Phe	Pro 295	Gly	Phe	Gly	Phe	Pro 300	Gly	Val	Gly	Val
Pro 305	Gly	Val	Gly	Val	Pro 310	Gly	Lys	Gly	Val	Pro 315	Gly	Val	Gly	Val	Pro 320
Gly	Val	Gly	Phe	Pro 325	Gly	Phe	Gly	Phe	Pro 330	Gly	Val	Gly	Val	Pro 335	Gly
Val	Gly	Val	Pro 340	Gly	Lys	Gly	Val	Pro 345	Gly	Val	Gly	Val	Pro 350	Gly	Val
Gly	Phe	Pro 355	Gly	Phe	Gly	Phe	Pro 360	Gly	Val	Gly	Val	Pro 365	Gly	Val	Gly
Val	Pro 370	Gly	Lys	Gly	Val	Pro 375	Gly	Val	Gly	Val	Pro 380	Gly	Val	Gly	Phe
Pro 385	Gly	Phe	Gly	Phe	Pro 390	Gly	Val	Gly	Val	Pro 395	Gly	Val	Gly	Val	Pro 400

Gly	Lys	Gly	Val	Pro 405	Gly	Val	Gly	Val	Pro 410	Gly	Val	Gly	Phe	Pro 415	Gly
Phe	Gly	Phe	Pro 420	Gly	Val	Gly	Val	Pro 425	Gly	Val	Gly	Val	Pro 430	Gly	Lys
Gly	Val	Pro 435	Gly	Val	Gly	Val	Pro 440	Gly	Val	Gly	Phe	Pro 445	Gly	Phe	Gly
Phe	Pro 450	Gly	Val	Gly	Val	Pro 455	Gly	Val	Gly	Val	Pro 460	Gly	Lys	Gly	Val
Pro 465	Gly	Val	Gly	Val	Pro 470	Gly	Val	Gly	Phe	Pro 475	Gly	Phe	Gly	Phe	Pro 480
Gly	Val	Gly	Val	Pro 485	Gly	Val	Gly	Val	Pro 490	Gly	Lys	Gly	Val	Pro 495	Gly
Val	Gly	Val	Pro 500	Gly	Val	Gly	Phe	Pro 505	Gly	Phe	Gly	Phe	Pro 510	Gly	Val
Gly	Val	Pro 515	Gly	Val	Gly	Val	Pro 520	Gly	Lys	Gly	Val	Pro 525	Gly	Val	Gly
Val	Pro 530	Gly	Val	Gly	Phe	Pro 535	Gly	Phe	Gly	Phe	Pro 540	Gly	Val	Gly	Val
Pro 545	Gly	Val	Gly	Val	Pro 550	Gly	Lys	Gly	Val	Pro 555	Gly	Val	Gly	Val	Pro 560
Gly	Val	Gly	Phe	Pro 565	Gly	Phe	Gly	Phe	Pro 570	Gly	Val	Gly	Val	Pro 575	Gly
Val	Gly	Val	Pro 580	Gly	Lys	Gly	Val	Pro 585	Gly	Val	Gly	Val	Pro 590	Gly	Val
Gly	Phe	Pro 595	Gly	Phe	Gly	Phe	Pro 600	Gly	Val	Gly	Val	Pro 605	Gly	Val	Gly
Val	Pro 610	Gly	Lys	Gly	Val	Pro 615	Gly	Val	Gly	Val	Pro 620	Gly	Val	Gly	Phe
Pro 625	Gly	Phe	Gly	Phe	Pro 630	Gly	Val	Gly	Val	Pro 635					

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<210> 37
<211> 782
<212> PRT
<213> Artificial Sequence
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<400> 37

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Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly
		35					40					45			
Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Arg	Gly	Asp	Ser	Pro	Gly	Val	Gly
	50					55					60				
Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val
65					70					75				80	
Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro
				85					90					95	
Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly
			100					105					110		
Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val
		115					120					125			
Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly
	130					135					140				
Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val
145					150					155					160
Pro	Gly	Val	Gly	Val	Pro	Gly	Arg	Gly	Asp	Ser	Pro	Gly	Val	Gly	Val
				165					170					175	
Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro
			180					185					190		
Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly
		195					200					205			
Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val
	210					215					220				
Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly
225					230					235					240
Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val
				245					250					255	
Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro
			260					265					270		
Gly	Val	Gly	Val	Pro	Gly	Arg	Gly	Asp	Ser	Pro	Gly	Val	Gly	Val	Pro
		275					280						285		
Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly
	290					295					300				
Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val
305					310					315					320
Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly
				325					330					335	

Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	340	345	350
Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	355	360	365
Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	370	375	380
Val	Gly	Val	Pro	Gly	Arg	Gly	Asp	Ser	Pro	Gly	Val	Gly	Val	Pro	Gly	385	390	395
Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	405	410	415
Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	420	425	430
Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	435	440	445
Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	450	455	460
Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	465	470	475
Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	485	490	495
Gly	Val	Pro	Gly	Arg	Gly	Asp	Ser	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	500	505	510
Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	515	520	525
Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	530	535	540
Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	545	550	555
Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	565	570	575
Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	580	585	590
Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	595	600	605
Val	Pro	Gly	Arg	Gly	Asp	Ser	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	610	615	620
Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	625	630	635
Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	645	650	655
Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly			



660	665	670
Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val		
675	680	685
Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly		
690	695	700
Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val		
705	710	715
Pro Gly Arg Gly Asp Ser Pro Gly Val Gly Val Pro Gly Val Gly Val		
725	730	735
Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro		
740	745	750
Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly		
755	760	765
Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro		
770	775	780

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35	45
Val Pro Gly Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val	
50	60
Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly Val Ala Pro	
65	80
Gly Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly Val	
85	95
Ala Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val	
100	110
Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro	
115	125
Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly	



Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
465 470 475 480

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val  
485 490 495

Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly Val Ala Pro  
500 505 510

Gly Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly Val  
515 520 525

Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val  
530 535 540

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
545 550 555 560

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
565 570 575

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
580 585 590

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
595 600 605

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val  
610 615 620

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
625 630 635 640

Val Pro Gly Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val  
645 650 655

Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly Val Ala Pro  
660 665 670

Gly Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly Val  
675 680 685

Ala Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
690 695 700

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
705 710 715 720

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
725 730 735

Val Gly Val Pro Gly Val Gly Val Pro  
740 745

<210> 39  
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<212> PRT  
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[illegible]

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly  
275 280 285

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Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Glu	Gly	Val	Pro
305					310					315					320
Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly
				325					330					335	
Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Glu	Gly	Val	Pro	Gly	Val
			340					345					350		
Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly
		355					360					365			
Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Glu	Gly	Val	Pro	Gly	Val	Gly	Val
		370				375					380				
Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro
385					390					395					400
Gly	Val	Gly	Val	Pro	Gly	Glu	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly
				405					410					415	
Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val
			420					425					430		
Gly	Val	Pro	Gly	Glu	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly
		435					440					445			
Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val
		450				455					460				
Pro	Gly	Glu	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro
465					470					475					480
Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly
				485					490					495	
Glu	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val
			500					505					510		
Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Glu	Gly
		515					520					525			
Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val
		530				535					540				
Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Glu	Gly	Val	Pro
545					550					555					560
Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly
				565					570					575	
Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Glu	Gly	Val	Pro	Gly	Val
			580					585					590		
Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly
		595					600					605			
Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Glu	Gly	Val	Pro	Gly	Val	Gly	Val

610				615				620							
Pro 625	Gly	Val	Gly	Val	Pro 630	Gly	Val	Gly	Val	Pro 635	Gly	Val	Gly	Val	Pro 640
Gly	Val	Gly	Val	Pro 645	Gly	Glu	Gly	Val	Pro 650	Gly	Val	Gly	Val	Pro 655	Gly
Val	Gly	Val	Pro 660	Gly	Val	Gly	Val	Pro 665	Gly	Val	Gly	Val	Pro 670	Gly	Val
Gly	Val	Pro 675	Gly	Glu	Gly	Val	Pro 680	Gly	Val	Gly	Val	Pro 685	Gly	Val	Gly
Val	Pro 690	Gly	Val	Gly	Val	Pro 695	Gly	Val	Gly	Val	Pro 700	Gly	Val	Gly	Val
Pro 705	Gly	Glu	Gly	Val	Pro 710	Gly	Val	Gly	Val	Pro 715	Gly	Val	Gly	Val	Pro 720
Gly	Val	Gly	Val	Pro 725	Gly	Val	Gly	Val	Pro 730	Gly	Val	Gly	Val	Pro 735	Gly
Glu	Gly	Val	Pro 740	Gly	Val	Gly	Val	Pro 745	Gly	Val	Gly	Val	Pro 750	Gly	Val
Gly	Val	Pro 755	Gly	Val	Gly	Val	Pro 760	Gly	Val	Gly	Val	Pro 765	Gly	Glu	Gly
Val	Pro 770	Gly	Val	Gly	Val	Pro 775	Gly	Val	Gly	Val	Pro 780	Gly	Val	Gly	Val
Pro 785	Gly	Val	Gly	Val	Pro 790	Gly	Val	Gly	Val	Pro 795	Gly	Glu	Gly	Val	Pro 800
Gly	Val	Gly	Val	Pro 805	Gly	Val	Gly	Val	Pro 810	Gly	Val	Gly	Val	Pro 815	Gly
Val	Gly	Val	Pro 820	Gly	Val	Gly	Val	Pro 825	Gly	Glu	Gly	Val	Pro 830	Gly	Val
Gly	Val	Pro 835	Gly	Val	Gly	Val	Pro 840	Gly	Val	Gly	Val	Pro 845	Gly	Val	Gly
Val	Pro 850	Gly	Val	Gly	Val	Pro 855	Gly	Glu	Gly	Val	Pro 860	Gly	Val	Gly	Val
Pro 865	Gly	Val	Gly	Val	Pro 870	Gly	Val	Gly	Val	Pro 875	Gly	Val	Gly	Val	Pro 880
Gly	Val	Gly	Val	Pro 885	Gly	Glu	Gly	Val	Pro 890	Gly	Val	Gly	Val	Pro 895	Gly
Val	Gly	Val	Pro 900	Gly	Val	Gly	Val	Pro 905	Gly	Val	Gly	Val	Pro 910	Gly	Val
Gly	Val	Pro 915	Gly	Glu	Gly	Val	Pro 920	Gly	Val	Gly	Val	Pro 925	Gly	Val	Gly
Val	Pro 930	Gly	Val	Gly	Val	Pro 935	Gly	Val	Gly	Val	Pro 940	Gly	Val	Gly	Val

Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
 945 950 955 960  
 Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
 965 970 975  
 Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val  
 980 985 990  
 Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly  
 995 1000 1005  
 Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
 1010 1015 1020  
 Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly  
 1025 1030 1035  
 Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
 1040 1045 1050  
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 1070 1075 1080  
 Val Pro  
 1085

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 20 25 30  
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 35 40 45  
 Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
 50 55 60  
 Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
 65 70 75 80  
 Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
 85 90 95

106790-122492

Val	Gly	Val	Pro 100	Gly	Val	Gly	Val	Pro 105	Gly	Val	Gly	Val	Pro 110	Gly	Val
Gly	Val	Pro 115	Gly	Val	Gly	Val	Pro 120	Gly	Val	Gly	Val	Pro 125	Gly	Val	Gly
Val	Pro 130	Gly	Val	Gly	Val	Pro 135	Gly	Val	Gly	Val	Pro 140	Gly	Val	Gly	Val
Pro 145	Gly	Val	Gly	Val	Pro 150	Gly	Val	Gly	Val	Pro 155	Gly	Val	Gly	Val	Pro 160
Gly	Val	Gly	Val	Pro 165	Gly	Val	Gly	Val	Pro 170	Gly	Val	Gly	Val	Pro 175	Gly
Val	Gly	Val	Pro 180	Gly	Val	Gly	Val	Pro 185	Gly	Val	Gly	Val	Pro 190	Gly	Val
Gly	Val	Pro 195	Gly	Val	Gly	Val	Pro 200	Gly	Val	Gly	Val	Pro 205	Gly	Val	Gly
Val	Pro 210	Gly	Val	Gly	Val	Pro 215	Gly	Val	Gly	Val	Pro 220	Gly	Val	Gly	Val
Pro 225	Gly	Val	Gly	Val	Pro 230	Gly	Val	Gly	Val	Pro 235	Gly	Val	Gly	Val	Pro 240
Gly	Val	Gly	Val	Pro 245	Gly	Val	Gly	Val	Pro 250	Gly	Val	Gly	Val	Pro 255	Gly
Val	Gly	Val	Pro 260	Gly	Val	Gly	Val	Pro 265	Gly	Val	Gly	Val	Pro 270	Gly	Val
Gly	Val	Pro 275	Gly	Val	Gly	Val	Pro 280	Gly	Val	Gly	Val	Pro 285	Gly	Val	Gly
Val	Pro 290	Gly	Val	Gly	Val	Pro 295	Gly	Val	Gly	Val	Pro 300	Gly	Val	Gly	Val
Pro 305	Gly	Val	Gly	Val	Pro 310	Gly	Val	Gly	Val	Pro 315	Gly	Val	Gly	Val	Pro 320
Gly	Val	Gly	Val	Pro 325	Gly	Val	Gly	Val	Pro 330	Gly	Val	Gly	Val	Pro 335	Gly
Val	Gly	Val	Pro 340	Gly	Val	Gly	Val	Pro 345	Gly	Val	Gly	Val	Pro 350	Gly	Val
Gly	Val	Pro 355	Gly	Val	Gly	Val	Pro 360	Gly	Val	Gly	Val	Pro 365	Gly	Val	Gly
Val	Pro 370	Gly	Val	Gly	Val	Pro 375	Gly	Val	Gly	Val	Pro 380	Gly	Val	Gly	Val
Pro 385	Gly	Val	Gly	Val	Pro 390	Gly	Val	Gly	Val	Pro 395	Gly	Val	Gly	Val	Pro 400
Gly	Val	Gly	Val	Pro 405	Gly	Val	Gly	Val	Pro 410	Gly	Val	Gly	Val	Pro 415	Gly



Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val  
420 425 430

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
435 440 445

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
450 455 460

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
465 470 475 480

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
485 490 495

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val  
500 505 510

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
515 520 525

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
530 535 540

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
545 550 555 560

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
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Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
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Gly Gly Val Pro  
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<210> 42  
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PEPTIDE

<400> 42

Gly Gly Phe Pro  
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<210> 43  
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<212> PRT  
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<400> 43

Gly Lys Gly Val Pro  
1 5

<210> 44  
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Gly Val Gly Phe Pro  
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Gly Phe Gly Phe Pro  
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<400> 46

Gly Arg Gly Asp Ser Pro  
1 5

<210> 47  
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Gly Val Gly Val Ala Pro  
1 5

<210> 48  
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Gly Glu Gly Val Pro  
1 5

<210> 49  
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Gly Phe Gly Val Pro  
1 5

<210> 50  
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Gly Gly Ala Pro

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<210> 51

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Gly Val Gly Ile Pro

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Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly

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65					70					75					80
Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly
				85					90					95	
Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val
			100					105					110		
Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly
		115					120					125			
Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile
	130					135					140				
Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro
145					150					155					160
Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly
				165					170					175	
Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val
			180					185					190		
Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly
		195					200					205			
Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile
	210					215					220				
Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro
225					230					235					240
Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly
				245					250					255	
Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val
			260					265					270		
Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly
		275					280					285			
Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile
	290					295					300				
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305					310					315					320
Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly
				325					330					335	
Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val
			340					345					350		
Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly
		355					360					365			
Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile
	370					375					380				

Protein Data Bank







Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly
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	1055					1060					1065			
Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly
	1070					1075					1080			
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	1085					1090					1095			
Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly
	1100					1105					1110			
Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly
	1115					1120					1125			
Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly
	1130					1135					1140			
Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly
	1145					1150					1155			
Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly
	1160					1165					1170			
Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly
	1175					1180					1185			
Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly
	1190					1195					1200			
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	1205					1210					1215			
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	1220					1225					1230			
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	1265					1270					1275			
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Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val  
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Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly  
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Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val  
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Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly  
35 40 45

Ile Pro Gly Val Gly Val Pro Gly Arg Gly Asp Ser Pro Gly Val Gly  
50 55 60

Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile  
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85 90 95

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115100" T 23 F 45 60

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Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly  
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20 25 30  
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35 40 45  
Ile Pro Gly Val Gly Val Pro Gly Arg Gly Asp Ser Pro Gly Val Gly  
50 55 60  
Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
65 70 75 80  
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 35 40 45  
 Ile Pro Gly Val Gly Val Pro Gly Arg Gly Asp Ser Pro Gly Val Gly  
 50 55 60  
 Val Pro Gly Val Gly Val Pro Gly Lys Gly Val Pro Gly Val Gly Phe  
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 85 90 95  
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 35 40 45

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Phe Gly Phe Pro Gly Val Gly Val Pro Gly  
1 5 10